

# FEATURES OF DESIGNING GAS TURBINE OF COMPLEX CYCLE GT24

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Features of designing gas turbine of a complex cycle with intermediate warm up GT24 and GT26 firms ABB on base gas turbine of simple cycle GT11N2 are considered.

*Gas turbine Units, cycle, effective efficiency, optimization*

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## References

1. Eliseev, Yu.S. Theory and Design of gas-turbine and combined engines: Manual. / Yu.S. Eliseev [and a.] - M.: MGTU named N.E. Bauman, 2000. – P. 635.
2. Tzanev, S.V. Gas-turbine and paro-gas engines of тепловых электростанций / S.V. Tzanev, V.D. Burov, A.N. Remezov. - M.: MEI, 2002. - 579 с.
3. Advanced Cycle System with new GT24 and GT26 gas turbines – historical background ABB Power Generation // ABB Review 1994, №1.
4. First GT24 will improve efficiency at Gilbert // Modern power systems, May 1994, p.65-73.
5. Hauenschild, R. Kombi-Kraftwerke mit höchsten Wirkungsgraden und niedrigsten Emissionen unter Einsatz der Gasturbine GT26 / R. Hauenschild, W. Jury // VGB Kraftwerkstechnik, 75 (1995), Heft 6, p. 487-493.
6. Component test results announced for ABB advanced – cycle gas turbines // Diesel and Gas turbine Worldwide 1995, -№ 1. P. 30-32.
7. Olkhovskiy, G.G. Design of perspectives power-plants gas-turbine engines / G.G. Olkhovskiy. – Teploenergetika. - 1996, -№4. - P. 66-75.